PONNAIYAH RAMAJAYAM INSTITUTE OF SCIENCE & TECHNOLOGY (PRIST)

Declared as DEEMED-TO-BE-UNIVERSITY
U/s 3 of UGC Act, 1956

SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELCTRONICS ENGINEERING

PRIST/E&T/EEE/20-21/7 Date: 10.09.2020

CIRCULAR

SUB: One day Webinar "Power theft Detection"

It is informed that a One day programme on Power theft Detection be arranged by the Department of Electrical and Electronics Engineering on 14.09.2020 for the academic year 2020-2021. Heads of the departments are requested to inform their students to attend the programme. HODs are also requested to nominate one faculty member to co-ordinate the same.

Dean

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School of Engineering and Tech.
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Vallam, Thanjavur-613 403.

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About the Programme

Electricity theft can be termed as fraud which can be in the form of meter tampering, illegal connections, billing irregularities and unpaid bills. The financial records indicate that most of the theft of electricity is in the form of stealing of power. In modern electronic meters, meter tampering and magnetic locking cannot be done. Hence now a days the most common type of power theft is done by hooking directly from the distribution lines. Electricity consumer dishonesty is a problem faced by all power utilities. Finding efficient measurements for detecting fraudulent electricity consumption has been an active research area in recent years. This project focusses on the detection of unofficial power consumption and high lightening some ways to prevent power theft.

- **Power Tapping:** Power theft is frequently committed during transmission by illegally tapping power lines to divert power to the required destinations. It is also done through illegal connections to power grid stations, which are cut during billing.

- **Meter fraud:** In many areas where meter readings are done manually, the person is frequently bribed to give false readings, and thus the amount paid is for less power than is actually consumed. Meters are also tampered with by obstructing the movement of the disc (usually electro-mechanical consists of slowly spinning discs to record the power consumed).

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DEPARTMENT OF ELECTRICAL AND ELCTRONICS ENGINEERING

TIME TABLE

Date	Time	Topic	Resource Person
14.09.2020	10.30 A.M-12.30 P.M	Power theft Detection	Mr. T. Arif Ahamed Assistant Engineer TNEB, Pudukkottai

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Students attendance

S.NO	NAME OF THE STUDENTS	REG NO	ATTENDANCE
1.	MURALIDHARAN R	2001EE10101	P
2.	AKASH A	2001EE10102	P
3.	SHANMUGARAJ C	2101EE13101	P
4.	RAJESH KANNAN S	2101EE13102	P
5.	KARTHICKKEYAN.S	2101EE13103	P
6.	VIJAYARAGAVAN.R	2101EE13104	P
7.	AL AJMAL HAJA.K	2101EE13105	P
8.	ARSATH HUSSAIN.AJ	2101EE13106	P
9.	SANTHOSH.P	2101EE13107	P
10.	SANJAY.M	2101EE13109	P
11.	R.HARIHARAN	2101EE13110	P
12.	S.MOHAMMED YUSUF	2101EE13111	P
13.	T.MUGUNDHAN	2101EE13112	P
14.	PASUPUREDDI PRAVE	2101EE13113	P
15.	**M.SARANYA**	2101EE13114	P
16.	**M.CHITRA**	2101EE13115	P
17.	**TAMILSELVI**	2101EE13116	P
18.	K.ELAYARAJA	2101EE13117	P
19.	M.MANIVANNAN	2101EE13118	P
20.	S.RAJESH	2101EE13119	P
21.	S.SARAVANAN	2101EE13120	P
22.	V.SUGUMAR	2101EE13121	P

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23	RAJKUMAR.R	2101EE13122	P
24	RAMKUMAR.L	2101EE13123	P
25	RAMADOSS.G	2101EE13124	P
26	SHARSATH ALI.S	2101EE13125	P
27	VEERAMANI.K	2101EE13126	P
28	VIJAYARASU.S	2101EE13127	P
29	RAJESHWARI.K	2101EE13128	P
30	AMUTHA .R	2101EE13129	P
31	SWEATHA.H	2101EE13130	P
32	SHANMUGARAJ C	2101EE13131	P
33	SANJAY.M	2101EE13132	P
34	P.MURUGADOSS	2101EE13133	P
35	PRADYUMNA BEHERA	2101EE13134	P
36	M.THYAGARAJAN	2101EE13135	P
37	SYED SULTAN BEEV	2101EE13136	P
38	R.KARTHIKEYAN	2101EE13137	P
39	BARATHKUMAR T	2101EE13138	P
40	RAJINIKANTH R	2101EE13139	P
41	ASWANTH I	2101EE13140	P
42	KARTHIK N	2101EE13141	P
43	KUMARAN K	2101EE13142	P
44	MANIKANDAN G	2101EE13143	P
45	MATHIVANNAN M	2101EE13144	P
46	AROKKIYARAJ K	2101EE13145	P
47	RAM K	2101EE13146	P
48	RAJESH R	2101EE13147	P
49	TAMILSELVAN T	2101EE13148	P
50	VIJAYAKUMAR B	2101EE13149	P

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DEPARTMENT OF ELECTRICAL AND ELCTRONICS ENGINEERING

PRIST/E&T/EEE/20-21/10 Date: 03.02.2021

CIRCULAR

SUB: One day seminar on "Solar Electric Vehicle"

It is informed that a One day programme on Solar Electric Vehicle be arranged by the Department of Electrical and Electronics Engineering on 10.02.2021 for the academic year 2020-2021. Heads of the departments are requested to inform their students to attend the programme. HODs are also requested to nominate one faculty member to co-ordinate the same.

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DEPARTMENT OF ELECTRICAL AND ELCTRONICS ENGINEERING

About the Programme

The vehicle is to be used in the Shell Eco-marathon competition, engineering standards are written in the rulebook for the urban concept division. With the goal of designing an energy efficient vehicle, matters such as safety, connections for equipment, size limits, visibility are all considered. If these constraints are not met, the vehicle will not be permitted in the Shell Ecomarathon race in the future. Spatial constraints were of primary concern during the design phase. Since material was purchased by previous teams, frame design and fabrication were started before the complete model was finished; therefore, when designing the various systems of the vehicle, the designer would need to check the frame model to assure that interference with the frame was not occurring. This added one more factor to consider during the design process.

Since combustion engines never achieve complete combustion, resulting extraneous gases add to the problem of global warming. Electric motors produce zero emissions; therefore, the application of urban electric driven vehicle will dramatically decrease the amount carbon dioxide (CO2) contributing to global warming. One other environmental factor should be considered when weighing the switch from combustion engines to electric motors. Electric motor drives require a power source. Due to the need to apply many life cycles to the battery and the need for lightweight application, the use of lithium ion batteries are inevitable. Lithium is a rare-Earth element which produces considerable waste water to obtain. This would result in a negative impact on the environment. Regulations should be in place to minimize the amount of waste water for lithium harvesting.

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Date	Time	Topic	Resource Person
10.02.2021	10.30 A.M-12.30 P.M	Solar Electric Vehicle	Mr. B. Vinothkumar Professor SRM University

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1.	SRIGANESH G	1901EE1001	P
2.	DHARANESHWARAN R	1901EE1002	P
3.	FAYAS AHAMED .N	1901EE1003	P
4.	SRIRAM S	1901EE1005	P
5.	MANIKANDAN M	1901EE1006	P
6.	ARIHARAN. M	1901EE1007	P
7.	HARIHARAN .K	1901EE1008	P
8.	UMAR SHAROOK K	1901EE1009	P
9.	RAJADURAI S	1901EE1010	P
10.	DHIVAKAR S	2001EE13101	P
11.	DHINESH KUMAR S	2001EE13102	P
12.	ABDUL AJEEZ.P	2001EE13103	P
13.	AJAY.C	211EEM41001	P
14.	GOWTHAMAN M	1901EE1011	P
15.	MURUGAN S	1901EE1012	P
16.	DHEENADHAYALAN A	1901EE1013	P
17.	DHARMALINGAM A	1901EE1014	P
18.	RAJESH G	1901EE1015	P
19.	SELVARASAN B	1901EE1016	P
20.	SIVAPAKKIAM P	1901EE1017	P
21.	VEERAKUMAR C	1901EE1018	P
22.	DHASARATHARAJAN S	1901EE1019	P

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23	MUGUNTHAN B	1901EE1020	P
24	RAMESH BABU C	1901EE1021	P
25	MARIMUTHU T	1901EE1022	P
26	SIVARANJINI R	1901EE1023	P
27	SUGILRAJ M	1901EE1024	P
28	MOHAMMED UMAR A	1901EE1025	P
29	ASHIQ AHMED I	1901EE1026	P
30	ARUNKAVI A	1901EE1027	P
31	DHIVYA M	1901EE1201	P
32	NASHREEN M	1901EE1202	P
33	SASI.R	1901EE1203	P
34	ELAVARAsi.R	1901EE1204	P
35	KAYALAN G	1901EE1028	P
36	KAVIYAPRIYAN K	1901EE1029	P
37	LOKESH U	1901EE1030	P
38	NARESH D	1901EE1031	P
39	KAVIN D	1901EE1032	P
40	LAKSHMIKANDAN A	1901EE1033	P
41	LOKESHWARAN K	1901EE1034	P
42	ARUNKUMAR T	1901EE1035	P
43	AKILESH J	1901EE1036	P
44	MOHAMED ASHIF	1901EE1037	P

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DEPARTMENT OF ELECTRICAL AND ELCTRONICS ENGINEERING

PRIST/E&T/EEE/20-21/7 Date: 10.09.2020

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SUB: One day Webinar "Power theft Detection"

It is informed that a One day programme on Power theft Detection be arranged by the Department of Electrical and Electronics Engineering on 14.09.2020 for the academic year 2020-2021. Heads of the departments are requested to inform their students to attend the programme. HODs are also requested to nominate one faculty member to co-ordinate the same.

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About the Programme

Electricity theft can be termed as fraud which can be in the form of meter tampering, illegal connections, billing irregularities and unpaid bills. The financial records indicate that most of the theft of electricity is in the form of stealing of power. In modern electronic meters, meter tampering and magnetic locking cannot be done. Hence now a days the most common type of power theft is done by hooking directly from the distribution lines. Electricity consumer dishonesty is a problem faced by all power utilities. Finding efficient measurements for detecting fraudulent electricity consumption has been an active research area in recent years. This project focusses on the detection of unofficial power consumption and high lightening some ways to prevent power theft.

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- **Meter fraud:** In many areas where meter readings are done manually, the person is frequently bribed to give false readings, and thus the amount paid is for less power than is actually consumed. Meters are also tampered with by obstructing the movement of the disc (usually electro-mechanical consists of slowly spinning discs to record the power consumed).

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Date	Time	Topic	Resource Person
14.09.2020	10.30 A.M-12.30 P.M	Power theft Detection	Mr. T. Arif Ahamed Assistant Engineer TNEB, Pudukkottai

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9.	SANTHOSH.P	2101EE13107	P
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11.	R.HARIHARAN	2101EE13110	P
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18.	K.ELAYARAJA	2101EE13117	P
19.	M.MANIVANNAN	2101EE13118	P
20.	S.RAJESH	2101EE13119	P
21.	S.SARAVANAN	2101EE13120	P
22.	V.SUGUMAR	2101EE13121	P

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46	AROKKIYARAJ K	2101EE13145	P
47	RAM K	2101EE13146	P
48	RAJESH R	2101EE13147	P
49	TAMILSELVAN T	2101EE13148	P
50	VIJAYAKUMAR B	2101EE13149	P

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PRIST/E&T/EEE/20-21/10 Date: 03.02.2021

CIRCULAR

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It is informed that a One day programme on Solar Electric Vehicle be arranged by the Department of Electrical and Electronics Engineering on 10.02.2021 for the academic year 2020-2021. Heads of the departments are requested to inform their students to attend the programme. HODs are also requested to nominate one faculty member to co-ordinate the same.

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About the Programme

The vehicle is to be used in the Shell Eco-marathon competition, engineering standards are written in the rulebook for the urban concept division. With the goal of designing an energy efficient vehicle, matters such as safety, connections for equipment, size limits, visibility are all considered. If these constraints are not met, the vehicle will not be permitted in the Shell Ecomarathon race in the future. Spatial constraints were of primary concern during the design phase. Since material was purchased by previous teams, frame design and fabrication were started before the complete model was finished; therefore, when designing the various systems of the vehicle, the designer would need to check the frame model to assure that interference with the frame was not occurring. This added one more factor to consider during the design process.

Since combustion engines never achieve complete combustion, resulting extraneous gases add to the problem of global warming. Electric motors produce zero emissions; therefore, the application of urban electric driven vehicle will dramatically decrease the amount carbon dioxide (CO2) contributing to global warming. One other environmental factor should be considered when weighing the switch from combustion engines to electric motors. Electric motor drives require a power source. Due to the need to apply many life cycles to the battery and the need for lightweight application, the use of lithium ion batteries are inevitable. Lithium is a rare-Earth element which produces considerable waste water to obtain. This would result in a negative impact on the environment. Regulations should be in place to minimize the amount of waste water for lithium harvesting.

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SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF ELECTRICAL AND ELCTRONICS ENGINEERING

TIME TABLE

Date	Time	Topic	Resource Person
10.02.2021	10.30 A.M-12.30 P.M	Solar Electric Vehicle	Mr. B. Vinothkumar Professor SRM University

Head of the Department
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Students attendance

S.NO	NAME OF THE STUDENTS	REG NO	ATTENDANCE
1.	SRIGANESH G	1901EE1001	P
2.	DHARANESHWARAN R	1901EE1002	P
3.	FAYAS AHAMED .N	1901EE1003	P
4.	SRIRAM S	1901EE1005	P
5.	MANIKANDAN M	1901EE1006	P
6.	ARIHARAN. M	1901EE1007	P
7.	HARIHARAN .K	1901EE1008	P
8.	UMAR SHAROOK K	1901EE1009	P
9.	RAJADURAI S	1901EE1010	P
10.	DHIVAKAR S	2001EE13101	P
11.	DHINESH KUMAR S	2001EE13102	P
12.	ABDUL AJEEZ.P	2001EE13103	P
13.	AJAY.C	211EEM41001	P
14.	GOWTHAMAN M	1901EE1011	P
15.	MURUGAN S	1901EE1012	P
16.	DHEENADHAYALAN A	1901EE1013	P
17.	DHARMALINGAM A	1901EE1014	P
18.	RAJESH G	1901EE1015	P
19.	SELVARASAN B	1901EE1016	P
20.	SIVAPAKKIAM P	1901EE1017	P
21.	VEERAKUMAR C	1901EE1018	P
22.	DHASARATHARAJAN S	1901EE1019	P

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23	MUGUNTHAN B	1901EE1020	P
24	RAMESH BABU C	1901EE1021	P
25	MARIMUTHU T	1901EE1022	P
26	SIVARANJINI R	1901EE1023	P
27	SUGILRAJ M	1901EE1024	P
28	MOHAMMED UMAR A	1901EE1025	P
29	ASHIQ AHMED I	1901EE1026	P
30	ARUNKAVI A	1901EE1027	P
31	DHIVYA M	1901EE1201	P
32	NASHREEN M	1901EE1202	P
33	SASI.R	1901EE1203	P
34	ELAVARAsi.R	1901EE1204	P
35	KAYALAN G	1901EE1028	P
36	KAVIYAPRIYAN K	1901EE1029	P
37	LOKESH U	1901EE1030	P
38	NARESH D	1901EE1031	P
39	KAVIN D	1901EE1032	P
40	LAKSHMIKANDAN A	1901EE1033	P
41	LOKESHWARAN K	1901EE1034	P
42	ARUNKUMAR T	1901EE1035	P
43	AKILESH J	1901EE1036	P
44	MOHAMED ASHIF	1901EE1037	P

Head of the Department
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SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

PRIST/E&T/CVL/20-21/3 Date: 13.07.2020

CIRCULAR

SUB: WEBINAR ON "EURASIA TUNNEL"

It is informed that **WEBINAR ON" EURASIA TUNNEL"** will be held on 23.07.2020 for the academic year 2020-2021. The detailed schedule will be given by the department. Heads of the departments are requested to inform their students about the **WEBINAR ON EURASIA TUNNEL** and motivate them to attend the class. HODs are also requested to nominate one faculty member to co-ordinate the same.

Head of the Department
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SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

About the Programme

First road tunnel construction across the Bosphorus linking Europe and Asia: innovation and international collaboration to solve technical challenges.Turkey.International Tunnelling Association (ITA) - Tunnelling Project of the Year, 2015.Engineering News-Record (ENR) - Global Best Project, Bridge/Tunnel, 2016.One Tunnel to Connect Two Continents.The only city settled on two continents, the city of Istanbul dates back to 660 BC and is now one of the most populous in the world with over 15 million people. The first road tunnel crossing of the Bosphorus in Turkey will provide an important transportation link between the European and Asian sides of Istanbul, reducing travel time from 100 minutes to 15 minutes. It is part of a 9 mile (14.6 kilometres) highway project.Complex Conditions Call For Innovation and CollaborationFour lanes of roadway will pass in stacked upper and lower decks through 3.3 miles (5.4km) of tunnel. This includes a 45 foot diameter (13.7 metre) bored submarine tunnel over 2 miles (3.4km) long and twin New Austrian Tunnelling Method (NATM) tunnels, each 0.6 miles (1 km). At depths of 330 feet (100m) below the water surface, in sand and gravel, the single pass segmental lining will be required to resist 11 bars of water pressure and large seismic forces. Construction also requires tunnelling through poor quality rock at both the Asian and European sides of the crossing, and mixed-face conditions beneath the Bosphorus. Special attention had to be given to design of the bored tunnel lining segments, gaskets, and bolted connections.The significant technical challenges faced by the designers and builders are coupled with both obstacles and opportunities brought together by the multinational design and construction teams. The design and construction coordination was accomplished with support by staff in Turkey, Korea, Great Britain, Austria, and the United States. The construction drawings were bilingual, Turkish and English; and the design was required to meet Turkish, European, and American codes.

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SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

TIME TABLE

Date	Time	Topic	Resource Person
23.07.2020	10.30 A.M- 12.30 P.M	WEBINAR ON EURASIA TUNNEL	DR.Aswin Sriram Assistant Professor Department of Civil Engineering Sivasubramaniya Nadar College of Engineering,Coimbatore

Head of the Department
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STUDENTS ATTENDANCE

S.NO	REGISTER NUMBER	STUDENTS NAME	ATTENDANCE
1	1701CV1002	M.MOHAMED WASEEM	P
2	1701CV1003	M.MOHAMED IRFAN	P
3	1701CV1004	B.SIVA BALARAJAN	P
4	1701CV1006	A.SARAVANA PRASANTH	P
5	1701CV1009	R.SURIYAR	P
6	1701CV1010	S.VIJAY	P
7	1701CV1011	S.ARAVINTHAN	P
8	1801CV1501	T.MANIKANDAN	P
9	1801CV1502	P.RAJADHARMA	P
10	1801CV1503	B.NANDHA KUMAR	P
11	1801CV1504	KAILASHANATH.A	P
12	1701CVM616	V.SUDHARSAN	P
13	1701CVM617	C.NAVEEN	P
14	170CVM620	VISHWA.K	P
15	1801CV1505	MUTHURAMAN	P
16	1701CVM631	MOHAMED NAFEES	P
17	1701CVM634	THINESH BABU.V.J	P
18	1701CVM637	MADHANAGOPALAN.S	P
19	1701CVM638	AJEETH.P.P	P
20	1701CVM642	G.GUHAN	P
21	1701CVM647	C.RAM KUMAR	P
22	1701CVM643	M.SAKTHI SUNDAR	P
23	1701CVM649	M.RAMACHANDRA RAJA	P
24	1701CVM650	KABILAN.S	P

25	1701CVM 652	H.YUVARAJ	P
26	1701CVM653	M.S TAKSHA	P
27	1701CVM661	S .ASAN ELAHS	P
28	1701CVM662	N. AKASH	P
29	1701CVM660	D.PRABAKARAN	P
30	1701CVM667	ARUNACHALAM	P
31	1701CVM673	SRI RAMVEL PANDIYAN	P
32	1701CVM678	RAMAKRISHNAN	P
33	2017CVM005	ARUNACHALAM.M	P
34	2017CVM006	ANNAMALAI.M	P
35	2017CVM007	VARSHITH .R	P
36	2017CVM008	A.AJMAL	P
37	2017CVM009	G.P.LOGESH MANIKANDAN	P
38	2017CVM010	S.VENKATRAMAN	P
39	2017CVM011	R.MOHAMED JABEER	P
40	2017CVM012	K.PRAGADEESH	P
41	2017CVM013	S.MOHAMMED SUBHER	P
42	2017CVM014	D.MATHIYAZHAGAN	P
43	2017CVM015	V.SUDARSAN	P
44	2017CVM016	I.RISIKESH	P
45	1801CV1001	SETHU RAJA	P
46	1801CV1002	POOMANI M	P
47	1801CV1003	REVATHI R	P
48	1801CV1004	MOHAMED ARAFATH S	P
49	1801CV1005	SUDHARSHAN P	P
50	1801CV1006	ABINANTHAN S	P
51	1801CV1007	THAUFIK SULTAN.F	P
52	1801CV1008	BALAJI R	P
53	1801CV1009	MOHAMMED RAASHEDEEN.T	P

54	1801CV1010	BALAJI J	P
55	1801CV1011	MOHAMMED JAHITH J	P
56	1801CV1013	ABDUL APPAS	P
57	1801CV1014	MOHAMED AASHIQ B	P
58	1801CV1021	LATCHIA PRABA B	P
59	1801CV1022	KANISHKAR B	P
60	1801CV1023	MUHAMMADH AADHIL M	P
61	1801CV1024	SANTHOSH.S	P
62	1801CV1025	GUHAN R B	P
63	1801CV1026	PRAGADESWARAN S	P
64	1901CV1501	AKASH.I	P
65	1901CV1502	P.NAVANEETHA KRISHNAN	P
66	1901CV1503	VISHNUVASANTHAN N	P
67	1901CV1504	ASHKAR S	P
68	1901CV1505	S.VENKATRAMAN	P
69	1901CV1506	M. MUTHU PANDIAN	P
70	1901CV1507	M. MOHAMED ABBAS	P
71	1901CV1508	M. PRAKASH	P
72	1801CVM675	G.AKILAN	P
73	2015CVM001	M.KRISHNA KUMAR	P
74	2015CVM002	R.MARTINA JENCY	P
75	2015CVM003	A.PAUL IMRISH	P
76	2015CVM004	MANIKANDAN.K	P
77	2016CVM008	T.VIGNESHWARAN	P
78	2016CVM009	K.PRABHAKARAN	P
79	2016CVM010	ARIHARAN. T	P
80	2016CVM011	MUGESH KANNAN. K	P
81	2016CVM012	SUBASH.S	P
82	2016CVM013	AKASH. V	P

83	2016CVM014	G. BHARATH DAVID RISHOP	P
84	1801CV1801	VEERABAGU .P	P
85	1801CV1802	RAJESH .P	P
86	1801CV1803	SANGEETHA .S	P
87	1801CV1804	ARUNPRASATH .S	P
88	1801CV1805	GAYATHRI .V	P
89	1801CV1806	SASIKUMAR .G	P
90	1801CV1807	DIVAKAR .M	P
91	1801CV1808	GANESHKUMAR .R	P
92	1801CV1809	VEERAGANESH .G	P
93	1801CV1810	SETHUMATHAVAN .R	P
94	1801CV1811	KARTHICK .K	P
95	1801CV1812	SYED MOHAMED BUKARI	P
96	1801CV1813	MANIKANDAN .R	P
97	1801CV1814	PERIYASAMY .C	P
98	1801CV1815	SURYA .K	P
99	1801CV1816	GOWSHIK .ES	P
100	1801CV1817	SENTHIL .T	P
101	1801CV1818	MUKESH .V	P
102	1801CV1819	THAMIL .V	P
103	1801CV1820	DHARANI .N	P
104	1801CV1821	ISAIVANAN .N	P
105	1801CV1822	SUGANTHI .S	P
106	1801CV1823	VIJAY .J	P
107	1801CV1824	KRISHNA KUMAR R	P
108	1801CV1825	NEELAMANI.S	P
109	1801CV1826	PRATHAP.C	P
110	1801CV1827	RAMKUMAR	P
111	1801CV1828	RUBAN RAJ.A	P

112	1801CV1829	SAGATHUNA.M	P
113	1801CV1830	SANTHOSHINI.M	P
114	1801CV1831	SARATH.B	P
115	1801CV1832	SARAVANAN.B	P
116	1801CV1833	SHANMUGABHARATHI.P	P
117	1901CV1001	NEETHIMOHAN K	P
118	1901CV1002	HARI PRASATH R	P
119	1901CV1003	IKSHANULLAH S	P
120	1901CV1004	HARIKRISHNAN A	P
121	1901CV1005	NETHAJI S	P
122	1901CV1006	VAIRAMANIRAJAN.P	P
123	1901CV1007	ABDUL RAHMAN P	P
124	1901CV1008	SARUKKHAN A	P
125	1901CV1009	GOKULAKRISHNAN R	P
126	1901CV1010	GOKUL.M	P
127	1901CV1011	GURUVIGNESH G	P
128	1901CV1012	PRIVITHIRAJ	P
129	1901CV1013	RANJITH.L	P
130	1901CV1014	VIJAYAKUMAR.R	P
131	1901CV1015	SUDHARSAN.M	P
132	1901CV1016	MOHAMED RIZWAN.M	P
133	1901CV1017	VISHNUPRIYA.V.R	P
134	1901CV1018	AKASH BALAJI.S	P
135	1901CV1019	BALAJI.J	P
136	1901CV1020	EZHARASAN.E	P
137	1901CV1021	MOHAMED SHEAKE ABDULLA.H	P
138	1901CV1022	PRABHAKARAN D	P
139	1901CV1023	VIGNESH V	P
140	1901CV1024	ABIRAMI .S	P

141	1901CV1025	ABISHEK.R	P
142	1901CV1026	DEEPAN.B	P
143	1901CV1027	DEVAKANNAN.S	P
144	1901CV1028	DIVVIGA.G	P
145	1901CV1029	GOPINATHAN.P	P
146	1901CV1030	HITESH.D	P
147	1901CV1031	NAVEEN.K	P
148	1901CV1032	NIRAIMATHI.K	P
149	1901CV1033	NIVEDHA.K	P
150	1901CV1034	PRAKASH.M	P
151	1901CV1035	PRAVEENKUMAR.K	P
152	1901CV1036	RAJARAJAN.K	P
153	1901CV1037	RAJITH.R	P
154	1901CV1038	RAMPRABU.P	P
155	1901CV1039	RATHINA KUMARI.R	P
156	1901CV1040	SARATHKUMAR.G	P
157	1901CV1041	SUSMITHA.V	P
158	1901CV1042	THAMEEM ANSARI.S	P
159	1901CV1043	THIRUMURUGAN.R	P
160	1901CV1044	A.SAYED IMRAN ALI	P
161	1901CV1045	P.VIGNESH	P

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SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

PRIST/E&T/CVL/20-21/13 Date: 15.02.2021

CIRCULAR

SUB: WEBINAR ON "USE OF E-WASTE IN CONCRETE"

It is informed that **WEBINAR ON "USE OF E-WASTE IN CONCRETE"** will be held on 25.02.2021 for the academic year 2020-2021. The detailed schedule will be given by the department. Heads of the departments are requested to inform their students about the **Webinar On "USE OF E-WASTE IN CONCRETE"** and motivate them to attend the class. HODs are also requested to nominate one faculty member to co-ordinate the same.

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SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

About the Programme

- The idea of managing and recycling electronic waste is getting broad acceptance because it is a resource that is rapidly available in bulk, contains various hazardous substances and has a low recycling rate. Meanwhile, increasing industrialization and urbanization has increased concrete production and consumption, resulting in environmental problems via resource depletion. As a result, the utilization of aggregates prepared from e-waste is a viable solution to different conservation and environmental issues caused by e-waste and concrete production. This article discusses the types of e-waste and types and production techniques of e-waste aggregates (e-waste plastic and cathode ray tube (CRT) glass). The primary focus of this article is the influence of e-waste aggregates on the properties of concrete, including workability, fresh and dry density, compressive strength, flexural strength, splitting tensile strength, and thermal resistance. Moreover, this study also discusses the suitable percentages of e-waste aggregates that can be incorporated as natural coarse aggregates to prepare sustainable concrete for structural and nonstructural purposes. It can be concluded that e-waste modified concrete provide a glimmer of hope for the safe and sound disposal of increasing quantity of e-waste. However, more comprehensive experimental studies are required to explore full potential of e-waste aggregates as natural coarse aggregates replacement for the large-scale production of concrete.
The disposal of toxic e-waste in landfill sites causes irreplaceable health and environmental hazards. Therefore, reusing raw materials obtained from e-waste recycling is the most viable solution to reduce the substantial growth in e-waste.

Incorporation of manufactured e-waste plastic, SG, and CG aggregates increases the workability of concrete owing to their smooth surface texture. However, using unmanufactured e-waste

plastic aggregates can decrease the workability of concrete because they (e-waste aggregates) entrap available moisture in created voids, which is required for concrete to flow.

The mechanical properties (e.g., compressive strength, flexural strength, and splitting tensile strength) of concrete containing e-waste plastic aggregate decrease at higher e-waste aggregate replacement levels owing to the lower density of e-waste aggregates and increased porosity of the concrete matrix. Increasing the amount of e-waste plastic aggregates leads to high reduction in mechanical properties of concrete. However, using low w/c ratio to prepare concrete with e-waste plastic aggregates can decrease the reduction in mechanical properties (particularly compressive strength).

Like e-waste plastic aggregates, incorporation of SG or/and CG also pose detrimental impact on the mechanical properties of concrete, which can be attributed to their smooth surface and similar size (particularly SG). However, the negative impact of SG/CG on the mechanical properties of concrete is not significant like e-waste plastic aggregate. The decrease in mechanical properties of SG and CG modified concrete can be countered by using both CG and SG in different proportions because it will ultimately get maximum benefits via the properties of the mentioned glass types or will negate their deficiencies.

The fresh and dry properties of concrete with e-waste aggregates can be enhanced with admixtures (like fly ash and steel slag), superplasticizer, and biomineralization. However, more data is necessary to estimate the long-term performance potential of e-waste incorporated concrete.

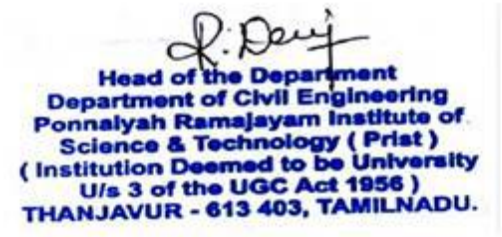
The availability of limited data on the impact of e-waste on the engineering properties of concrete suggests in-depth analysis of e-waste modified concrete should be investigated comprehensively by incorporating various factors, i.e., w/c ratio, concrete type, cement type, curing and environmental conditions. This will enable concrete technologists to conclude whether e-waste aggregates are suitable replacements for coarse aggregates in the preparation of concrete.

E-waste modified concrete has the potential to decrease the thermal conductivity due to its lower density, which makes it a suitable material for energy conservation in buildings. However,

limited literature is available on the mentioned topics, which makes it difficult to predict whether it would satisfy the conditions of designing lightweight or fireproof concrete.

Manufactured e-waste modified concrete performs better than using unmanufactured e-waste aggregate. However, an evaluation of the cost and environmental impact of preparing manufactured aggregates is missing. Therefore, a life cycle assessment of e-waste modified concrete should be conducted to see how its manufacturing affects social, economic, and environmental conditions. Such evaluation will enable concrete technologists to see if the environmental impact of e-waste may be diminished by using it as a supplement to coarse aggregates in concrete.

Most of the studies suggest that e-waste aggregates can be used to prepare non-structural members of a concrete structure. However, some researchers suggest that incorporation of e-waste increases durability and mechanical properties of concrete, which indicates that it has the potential to be used in preparing structural concrete. Moreover, a few studies also suggest that e-waste aggregate enhances the ductility of concrete as compared to conventional concrete, which indicates its ability to resist seismic loads. This should be studied more extensively to make the most of increasing e-waste worldwide.



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SCHOOL OF ENGINEERING AND TECHNOLOGY

DEPARTMENT OF CIVIL ENGINEERING

TIME TABLE

Date	Time	Topic	Resource Person
25.02.2021	10.30 A.M-12.30 P.M	Webinar On "USE OF E-WASTE IN CONCRETE"	DR.S.Sindhu Nachiar Assistant Professor Department of Civil Engineering SRM Institute of Science and Technology

Head of the Department
Department of Civil Engineering
Ponnaiyah Ramajayam Institute of
Science & Technology (Prist)
(Institution Deemed to be University
U/s 3 of the UGC Act 1956)
THANJAVUR - 613 403, TAMILNADU.

DEAN
School of Engineering and Tech
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Deemed to be University
Vallam, Thanjavur - 613 403.

PRIST
DEEMED TO BE
UNIVERSITY
NAAC ACCREDITED
THANJAVUR – 613 403 - TAMIL NADU

STUDENTS ATTENDANCE

S.NO	REGISTER NUMBER	STUDENTS NAME	ATTENDANCE
1	1701CV1002	M.MOHAMED WASEEM	P
2	1701CV1003	M.MOHAMED IRFAN	P
3	1701CV1004	B.SIVA BALARAJAN	P
4	1701CV1006	A.SARAVANA PRASANTH	P
5	1701CV1009	R.SURIYAR	P
6	1701CV1010	S.VIJAY	P
7	1701CV1011	S.ARAVINTHAN	P
8	1801CV1501	T.MANIKANDAN	P
9	1801CV1502	P.RAJADHARMA	P
10	1801CV1503	B.NANDHA KUMAR	P
11	1801CV1504	KAILASHANATH.A	P
12	1701CVM616	V.SUDHARSAN	P
13	1701CVM617	C.NAVEEN	P
14	170CVM620	VISHWA.K	P
15	1801CV1505	MUTHURAMAN	P
16	1701CVM631	MOHAMED NAFEES	P
17	1701CVM634	THINESH BABU.V.J	P
18	1701CVM637	MADHANAGOPALAN.S	P
19	1701CVM638	AJEETH.P.P	P
20	1701CVM642	G.GUHAN	P
21	1701CVM647	C.RAM KUMAR	P
22	1701CVM643	M.SAKTHI SUNDAR	P
23	1701CVM649	M.RAMACHANDRA RAJA	P
24	1701CVM650	KABILAN.S	P

25	1701CVM 652	H.YUVARAJ	P
26	1701CVM653	M.S TAKSHA	P
27	1701CVM661	S .ASAN ELAHS	P
28	1701CVM662	N. AKASH	P
29	1701CVM660	D.PRABAKARAN	P
30	1701CVM667	ARUNACHALAM	P
31	1701CVM673	SRI RAMVEL PANDIYAN	P
32	1701CVM678	RAMAKRISHNAN	P
33	2017CVM005	ARUNACHALAM.M	P
34	2017CVM006	ANNAMALAI.M	P
35	2017CVM007	VARSHITH .R	P
36	2017CVM008	A.AJMAL	P
37	2017CVM009	G.P.LOGESH MANIKANDAN	P
38	2017CVM010	S.VENKATRAMAN	P
39	2017CVM011	R.MOHAMED JABEER	P
40	2017CVM012	K.PRAGADEESH	P
41	2017CVM013	S.MOHAMMED SUBHER	P
42	2017CVM014	D.MATHIYAZHAGAN	P
43	2017CVM015	V.SUDARSAN	P
44	2017CVM016	I.RISIKESH	P
45	1801CV1001	SETHU RAJA	P
46	1801CV1002	POOMANI M	P
47	1801CV1003	REVATHI R	P
48	1801CV1004	MOHAMED ARAFATH S	P
49	1801CV1005	SUDHARSHAN P	P
50	1801CV1006	ABINANTHAN S	P
51	1801CV1007	THAUFIK SULTAN.F	P
52	1801CV1008	BALAJI R	P
53	1801CV1009	MOHAMMED RAASHEDEEN.T	P

54	1801CV1010	BALAJI J	P
55	1801CV1011	MOHAMMED JAHITH J	P
56	1801CV1013	ABDUL APPAS	P
57	1801CV1014	MOHAMED AASHIQ B	P
58	1801CV1021	LATCHIA PRABA B	P
59	1801CV1022	KANISHKAR B	P
60	1801CV1023	MUHAMMADH AADHIL M	P
61	1801CV1024	SANTHOSH.S	P
62	1801CV1025	GUHAN R B	P
63	1801CV1026	PRAGADESWARAN S	P
64	1901CV1501	AKASH.I	P
65	1901CV1502	P.NAVANEETHA KRISHNAN	P
66	1901CV1503	VISHNUVASANTHAN N	P
67	1901CV1504	ASHKAR S	P
68	1901CV1505	S.VENKATRAMAN	P
69	1901CV1506	M. MUTHU PANDIAN	P
70	1901CV1507	M. MOHAMED ABBAS	P
71	1901CV1508	M. PRAKASH	P
72	1801CVM675	G.AKILAN	P
73	2015CVM001	M.KRISHNA KUMAR	P
74	2015CVM002	R.MARTINA JENCY	P
75	2015CVM003	A.PAUL IMRISH	P
76	2015CVM004	MANIKANDAN.K	P
77	2016CVM008	T.VIGNESHWARAN	P
78	2016CVM009	K.PRABHAKARAN	P
79	2016CVM010	ARIHARAN. T	P
80	2016CVM011	MUGESH KANNAN. K	P
81	2016CVM012	SUBASH.S	P
82	2016CVM013	AKASH. V	P

83	2016CVM014	G. BHARATH DAVID RISHOP	P
84	1801CV1801	VEERABAGU .P	P
85	1801CV1802	RAJESH .P	P
86	1801CV1803	SANGEETHA .S	P
87	1801CV1804	ARUNPRASATH .S	P
88	1801CV1805	GAYATHRI .V	P
89	1801CV1806	SASIKUMAR .G	P
90	1801CV1807	DIVAKAR .M	P
91	1801CV1808	GANESHKUMAR .R	P
92	1801CV1809	VEERAGANESH .G	P
93	1801CV1810	SETHUMATHAVAN .R	P
94	1801CV1811	KARTHICK .K	P
95	1801CV1812	SYED MOHAMED BUKARI	P
96	1801CV1813	MANIKANDAN .R	P
97	1801CV1814	PERIYASAMY .C	P
98	1801CV1815	SURYA .K	P
99	1801CV1816	GOWSHIK .ES	P
100	1801CV1817	SENTHIL .T	P
101	1801CV1818	MUKESH .V	P
102	1801CV1819	THAMIL .V	P
103	1801CV1820	DHARANI .N	P
104	1801CV1821	ISAIVANAN .N	P
105	1801CV1822	SUGANTHI .S	P
106	1801CV1823	VIJAY .J	P
107	1801CV1824	KRISHNA KUMAR R	P
108	1801CV1825	NEELAMANI.S	P
109	1801CV1826	PRATHAP.C	P
110	1801CV1827	RAMKUMAR	P
111	1801CV1828	RUBAN RAJ.A	P

112	1801CV1829	SAGATHUNA.M	P
113	1801CV1830	SANTHOSHINI.M	P
114	1801CV1831	SARATH.B	P
115	1801CV1832	SARAVANAN.B	P
116	1801CV1833	SHANMUGABHARATHI.P	P
117	1901CV1001	NEETHIMOHAN K	P
118	1901CV1002	HARI PRASATH R	P
119	1901CV1003	IKSHANULLAH S	P
120	1901CV1004	HARIKRISHNAN A	P
121	1901CV1005	NETHAJI S	P
122	1901CV1006	VAIRAMANIRAJAN.P	P
123	1901CV1007	ABDUL RAHMAN P	P
124	1901CV1008	SARUKKHAN A	P
125	1901CV1009	GOKULAKRISHNAN R	P
126	1901CV1010	GOKUL.M	P
127	1901CV1011	GURUVIGNESH G	P
128	1901CV1012	PRIVITHIRAJ	P
129	1901CV1013	RANJITH.L	P
130	1901CV1014	VIJAYAKUMAR.R	P
131	1901CV1015	SUDHARSAN.M	P
132	1901CV1016	MOHAMED RIZWAN.M	P
133	1901CV1017	VISHNUPRIYA.V.R	P
134	1901CV1018	AKASH BALAJI.S	P
135	1901CV1019	BALAJI.J	P
136	1901CV1020	EZHARASAN.E	P
137	1901CV1021	MOHAMED SHEAKE ABDULLA.H	P
138	1901CV1022	PRABHAKARAN D	P
139	1901CV1023	VIGNESH V	P
140	1901CV1024	ABIRAMI .S	P

141	1901CV1025	ABISHEK.R	P
142	1901CV1026	DEEPAN.B	P
143	1901CV1027	DEVAKANNAN.S	P
144	1901CV1028	DIVVIGA.G	P
145	1901CV1029	GOPINATHAN.P	P
146	1901CV1030	HITESH.D	P
147	1901CV1031	NAVEEN.K	P
148	1901CV1032	NIRAIMATHI.K	P
149	1901CV1033	NIVEDHA.K	P
150	1901CV1034	PRAKASH.M	P
151	1901CV1035	PRAVEENKUMAR.K	P
152	1901CV1036	RAJARAJAN.K	P
153	1901CV1037	RAJITH.R	P
154	1901CV1038	RAMPRABU.P	P
155	1901CV1039	RATHINA KUMARI.R	P
156	1901CV1040	SARATHKUMAR.G	P
157	1901CV1041	SUSMITHA.V	P
158	1901CV1042	THAMEEM ANSARI.S	P
159	1901CV1043	THIRUMURUGAN.R	P
160	1901CV1044	A.SAYED IMRAN ALI	P
161	1901CV1045	P.VIGNESH	P

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